



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Oil Trust Fund
Sample Collection Date(s)-- 07/21/10
Contact----- Rich Mayer (6PD-F)
Report Date-----07/27/10
Project #----- 10REG209
Work Order(s)-----1007032

Analyses included in this report:

LC DOSS

Report Narrative

DOSS:

DOSS was not found in the samples at or above the reporting limit.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund

Project Number: 10REG209

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T001-1001-100721-SW-1	1007032-01	Liquid	7/21/10 11:15	07/22/10 09:35
T001-1001-100721-SW-2	1007032-02	Liquid	7/21/10 11:15	07/22/10 09:35
T001-1002-100721-SW-1	1007032-03	Liquid	7/21/10 12:30	07/22/10 09:35
T001-1003-100721-SW-1	1007032-04	Liquid	7/21/10 13:45	07/22/10 09:35
T001-2414-100721-SW-1	1007032-05	Liquid	7/21/10 10:15	07/22/10 09:35
T005-1333-100721-SW-1	1007032-06	Liquid	7/21/10 10:55	07/22/10 09:35
T005-2327-100721-SW-1	1007032-07	Liquid	7/21/10 9:20	07/22/10 09:35
T007-0008-100721-SW-1	1007032-08	Liquid	7/21/10 11:00	07/22/10 09:35
T005-2331-100721-SW-1	1007032-09	Liquid	7/21/10 10:05	07/22/10 09:35
T005-2331-100721-SW-2	1007032-10	Liquid	7/21/10 10:05	07/22/10 09:35
T005-2338-100721-SW-1	1007032-11	Liquid	7/21/10 8:55	07/22/10 09:35
T007-0008-100721-SW-2	1007032-12	Liquid	7/21/10 11:00	07/22/10 09:35
T007-1328-100721-SW-1	1007032-13	Liquid	7/21/10 12:30	07/22/10 09:35
T007-1332-100721-SW-1	1007032-14	Liquid	7/21/10 11:45	07/22/10 09:35
T007-BG02-100721-SW-1	1007032-15	Liquid	7/21/10 15:08	07/22/10 09:35
T007-SG024-100721-SW-1	1007032-16	Liquid	7/21/10 9:55	07/22/10 09:35



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DOSS by LC/MS/MS

Lab ID: 1007032-01

Station ID: T001-1001-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	165		95.0	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diocetyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.



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DOSS by LC/MS/MS

Lab ID: 1007032-02

Station ID: T001-1001-100721-SW-2

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	161		96.7	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-03

Station ID: T001-1002-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	163		97.8	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-04

Station ID: T001-1003-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	159		95.7	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-05

Station ID: T001-2414-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	170		97.8	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-06

Station ID: T005-1333-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	170		98.0	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-07

Station ID: T005-2327-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	160		91.9	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.6	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-08

Station ID: T007-0008-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 14 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	266		93.2	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-09

Station ID: T005-2331-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	163		93.6	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-10

Station ID: T005-2331-100721-SW-2

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	151		86.7	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-11

Station ID: T005-2338-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	180		104	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-12

Station ID: T007-0008-100721-SW-2

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	86.7		91.1	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-13

Station ID: T007-1328-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 42 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	102		107	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.8	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-14

Station ID: T007-1332-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 36 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	120		108	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-15

Station ID: T007-BG02-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 34 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	118		101	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS

Lab ID: 1007032-16

Station ID: T007-SG024-100721-SW-1

Batch: B0G2201

Date Collected: 07/21/10

Sample Type: Liquid

Sample Volume: 25 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	167		104	50-150	07/22/10	07/22/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/22/10	07/22/10

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DOSS by LC/MS/MS - Quality Control

Batch: B0G2201

Sample Type: Liquid

Blank (B0G2201-BLK1)

Prepared: 7/22/2010 Analyzed: 7/22/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	173		200	86.7 50-150

Blank (B0G2201-BLK1)

Prepared: 7/22/2010 Analyzed: 7/22/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	U		20.0		

LCS (B0G2201-BS1)

Prepared: 7/22/2010 Analyzed: 7/22/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	189		200	94.4 50-150

LCS (B0G2201-BS1)

Prepared: 7/22/2010 Analyzed: 7/22/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	96.3		20.0	101	95.3 50-150	



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DOSS by LC/MS/MS - Quality Control

Batch: B0G2201

Sample Type: Liquid

Matrix Spike (B0G2201-MS1)

Source: 1007032-01

Prepared: 7/22/2010 Analyzed: 7/22/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	160		167	96.2 50-150

Matrix Spike (B0G2201-MS1)

Source: 1007032-01

Prepared: 7/22/2010 Analyzed: 7/22/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	83.6		19.6	84.2		92.4 50-150	

Matrix Spike (B0G2201-MS2)

Source: 1007032-11

Prepared: 7/22/2010 Analyzed: 7/22/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	181		182	99.7 50-150

Matrix Spike (B0G2201-MS2)

Source: 1007032-11

Prepared: 7/22/2010 Analyzed: 7/22/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	98.2		20.0	91.8		104 50-150	



Environmental Protection Agency
Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G2201

Sample Type: Liquid

Matrix Spike Dup (B0G2201-MSD1)

Source: 1007032-01

Prepared: 7/22/2010 Analyzed: 7/22/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	168		174	96.8 50-150

Matrix Spike Dup (B0G2201-MSD1)

Source: 1007032-01

Prepared: 7/22/2010 Analyzed: 7/22/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	91.3		20.0	87.8		97.3 50-150	8.76 30

Matrix Spike Dup (B0G2201-MSD2)

Source: 1007032-11

Prepared: 7/22/2010 Analyzed: 7/22/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	179		174	103 50-150

Matrix Spike Dup (B0G2201-MSD2)

Source: 1007032-11

Prepared: 7/22/2010 Analyzed: 7/22/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	93.0		20.0	87.8		103 50-150	5.42 30



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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.